



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

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2011 Zero Emission Vehicle Credits

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To provide greater transparency to interested stakeholders, production data beginning in model year 2009 and credit balances in 2011 are now publicly available as per section 1962.1(I), which NJ adopted by reference.

Manufacturer Volume Status

The ZEV regulation requires large volume and intermediate volume manufacturers to bring to and operate in New Jersey a certain percent of ZEVs (such as battery electric and fuel cell vehicles), clean plug-in hybrids, clean hybrids and clean gasoline vehicles with near-zero tail pipe emissions. The table below lists the 2011 Vehicle Manufacturers subject to the ZEV Requirements.

2011 Manufacturer Volume Status	
Large Volume	Intermediate Volume
Chrysler Group	BMW
Ford	Hyundai
GM	Kia
Honda	Land Rover
Nissan	Mazda
Toyota	Mercedes Benz
	Subaru
	Volkswagen
	Volvo

Manufacturer Requirement

A vehicle manufacturer's ZEV requirement is based on a percentage of all passenger cars and light-duty trucks from 0 to 8500 lbs, brought to and operated in New Jersey.

The table below is the 2011 New Jersey vehicle production of Large Volume and Intermediate Volume Manufacturers.

Large and Intermediate Volume Manufacturer 2011 Vehicles Delivered for Sale in New Jersey		
Manufacturer	Passenger Cars and LDT1	LDT2
BMW	27,974	6,531
Chrysler Group	10,145	25,666
Ford	34,760	19,304
FUJI Heavy Industries/Subaru	8,018	4,443
General Motors	34,795	35,685
Honda	47,993	23,970
Hyundai	32,383	4,243
KIA	7,904	5,534
Land Rover	0	3,765
Mazda	7,982	4,409
Mercedes Benz	15,735	9,255
Mitsubishi	4,212	1,046
Nissan	31,732	11,544
Toyota	42,975	39,421
Volkswagen	17,708	4,576
Volvo	1,943	2,024
SUBTOTALS	326,259	201,416
TOTAL		527,675

LDT1 = light duty truck 0-3750 lbs

LDT2 = light duty truck 3751-8500 lbs

Manufacturer Credit Balances

In complying with the ZEV regulation, manufacturers deliver vehicles in NJ which generate varying credits based on vehicle type. There are also other parties generating credits that do not have ZEV requirements. The table below lists the credit balances as

end of 2011 model year. The credits are in units of grams per mile Non-Methane Organic Gases (g/mi NMOG).

Manufacturer	ZEVs (excluding NEVs)	NEVs	Enhanced AT PZEV	AT PZEVs	PZEVs
Azure Dynamics	0.000	0.000	0.000	0.000	0.000
BMW	92.473	0.000	0.000	0.000	171.761
Chrysler Group	21.606	232.492	0.000	0.000	60.000
CODA	0.000	0.000	0.000	0.000	0.000
Ford	145.442	453.546	108.594	299.653	416.652
FUJI Heavy Industries/Subaru	0.000	0.000	0.000	0.000	192.561
General Motors	151.086	403.602	139.933	251.642	244.350
Honda	113.150	395.896	206.197	264.285	118.979
Hyundai	25.760	0.000	0.000	0.000	94.498
KIA	27.010	0.000	0.000	0.000	33.371
Land Rover	0.000	0.000	0.000	0.000	0.000
Mazda	0.000	0.000	0.000	0.000	129.698
Mercedes Benz	27.675	150.811	0.000	2.057	11.180
Mitsubishi	1.471	0.000	0.000	0.000	116.566
Nissan	267.753	0.000	0.000	0.000	670.058
Tesla	0.875	0.000	0.000	0.000	0.000
Toyota	43.700	0.000	377.100	1917.042	510.850
Volkswagen	47.720	0.000	0.000	0.000	35.983
Volvo	0.000	0.000	0.000	0.000	93.043
TOTALS	977.361	1,636.347	820.206	2,734.679	2,899.550

ZEV = Zero Emission Vehicle

NEVs = Neighborhood Electric Vehicle
NMOG = Non-Methane Organic Gases
AT PZEV = Advanced Technology Partial Zero Emission Vehicle
PZEV = Partial Zero Emission Vehicle

Manufacturer Transfers

Manufacturer may transfer credits between manufacturers and third parties. Below are the ZEV credits transferred between October 1, 2011 and September 30, 2012.

New Jersey ZEV transfers out between October 1, 2011 and December 21, 2012 (g/mi NMOG)		
Transferor	Type of Vehicle	Number of Credits
Azure Dynamics	ZEV	0.715
Honda	AT PZEV	74.550
Tesla	ZEV	8.831
Think City	ZEV	6.638
Ford	PZEV	1.864
Nissan	PZEV	60.00

New Jersey ZEV transfers in between October 1, 2011 and September 30, 2012 (g/mi NMOG)		
Transferor	Type of Vehicle	Number of Credits
Ford	ZEV	0.715
GM	AT PZEV	74.550
Honda	ZEV	15.469
Land Rover	PZEV	1.864`
Chrysler	PZEV	60.000

Frequently Asked Questions

What do these credit balances mean?

All manufacturers subject to the ZEV regulation are in compliance through model year 2011. The positive credit balances represent a successful over compliance with the ZEV regulation. Manufacturers can use these balances to provide flexibility in the timing and production of bringing new clean cars to the market to meet the ZEV requirements in coming years.

How far into the future do these credit balances cover the manufacturers' ZEV requirement?

Each manufacturer is unique in their strategy of compliance with the ZEV regulation. It is not possible to predict how and when these credit balances will be spent over the coming years due to the complexity and flexibility of the regulation. There are various mechanisms in the ZEV regulation which limit how credits are spent.

How do you calculate a manufacturer's requirement?

For understanding the calculations involved in the ZEV Regulation, please see the ZEV Tutorial link below.

Why are credit balances in units of grams/mile Non-Methane Organic Gases (g/mile NMOG)?

When credits are earned they are multiplied by the g/mile NMOG fleet average requirement for the appropriate model year. Please note that in the ZEV regulation g/mi NMOG is used only as index (which decreases over time)—it is the “currency” that credits are stored in and does not represent actual values of g/mi NMOG. The intent of this multiplier was to reward early production of vehicles.

How many vehicles have been brought to and operated in New Jersey as a result of the ZEV regulation?

A total of about 530,000 vehicles including approximately 165 battery electrics, 206 NEVs, 357 plug-in electric, 52,000 clean hybrids and 476,000 clean gasoline vehicles. These numbers represent vehicles through model year 2011.

More Information

[ZEV Regulation](#)

[ZEV Tutorial](#)

2009 ZEV Credit Archive (<http://www.nj.gov/dep/cleanvehicles/2009Data.pdf>)

2010 ZEV Credit Archive(<http://www.nj.gov/dep/cleanvehicles/2010ZEV.pdf>)

[MAC 2011-02](#): Zero Emission Vehicle (ZEV) Credit Reporting and Tracking System
NMOG table from California Code of Regulations, Title 13, Section 1961(b)(1)(A)

Fleet Average Non-Methane Organic Gas Exhaust Mass Emission Requirements for Light-duty Vehicle Weight Classes (50,000 Mile Durability Vehicle Basis)		
Model Year	Fleet Average NMOG (grams per mile)	
	All PCs; LDTs 0-3750 lbs LVW	LDTs 3751 lbs. LVW - 8500 lbs. GVW
2001	0.070	0.098
2002	0.068	0.095
2003	0.062	0.093
2004	0.053	0.085
2005	0.049	0.076
2006	0.046	0.062
2007	0.043	0.055
2008	0.040	0.050

2009	0.038	0.047
2010+	0.035	0.043

Contact Us

For more information please contact the New Jersey DEP Low Vehicle Emission program at NJZEV@dep.state.nj.us (609)-292-8241.